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## The IXIA 200 Traffic Generator and Analyzer is the industry's desktop unit that tests wire-speed multilayer systems at gig Mbps rates.

The new smaller sized unit is fully compatible with the IXIA 1600 the company engine. The 200 is a comprehensive testing tool for certification, performance of Ethernet switches, routers and associated products. The multi-port system IXIA's wide range of load modules for Gigabit and 10/100 Mbps environments future WAN interfaces.

### Compact Chassis

### Powerful Traffic Generation

### Highly Manageable

### Typical Applications

### Software

#### Compact Chassis, Full-Sized Performance

The compact 10"x4"x16" unit houses a Pentium class PC and utilizes the fam 95 Operating System. The 200 is ready for connection to the network "out-of-in 10/100Mbps Ethernet network interface. Up to 256 IXIA systems can be da ports in the chain synchronized to within 10 ns. The units may be remotely m: TCP/IP networks.

#### Powerful Traffic Generation

The IXIA 200 Ethernet Load Modules provides very powerful traffic generation port may be configured to send any kind of packet - valid, undersized, oversiz traffic may be configured in streams of packets containing incrementing, decr random MAC addresses. IP addresses may be generated "on-the-fly" for test switches. The 200 has the unique ability to pause traffic upon trigger events a alternate streams temporarily allowing SNMP, RIP, OSPF, ARP, intermittent I packets transmission.

#### Highly Manageable

The IXIA 200 may be managed via the IxExplorer Windows GUI. Using a mor mouse the user can configure traffic generation, monitor statistics, capture an packets. It also controls all other connected IXIA units for seamless operation configurations.

#### Typical Applications

The IXIA product line is fast becoming a test tool of choice for network manag ISP's and large company networks as well as network IC and equipment man

#### IxExplorer Software

The entire 200 network can be managed and controlled with the Ixia IxExplor software. IxExplorer is a client-server application that can be run directly on tl attach a keyboard, mouse and monitor) or on any Windows 95/NT PC over a The IxExplorer uses the Microsoft Windows Explorer paradigm for its easy-to- IxExplorer configures and controls traffic generation, monitors statistics and a captured packets. The scaleable interface can be used across multiple chass seamless operation of large configurations.

#### Packet Generation

Choosing Packet Streams allows the user to define and configure data flows on the port. Flows are generated by defining one or more streams of data, within which the number of data bursts and the number of frames per burst. The size of each frame is also defined, including preamble, addresses, payload, and forced error. Error Control defines the relationship to other streams — continuous, sequential, in stream, and can also be defined to loop back to the top to create complex, closed flows.

#### Statistics

The Statistics feature of IxExplorer allows the user to view all or a subset of the statistics available for that port. Statistics for multiple ports can be displayed side-by-side to gain insight into overall traffic patterns. The user may create custom statistic views in which ports and which statistics are in each view. There may be multiple concurrent views running simultaneously.

#### Filters (Per Port)

Comprehensive triggers and filters allow you to capture and count the most common traffic. There is a trigger to start capture and a separate filter to define what is captured in the buffer. There are also several user-definable statistics that may be configured to capture specific elements (DA, SA, good frame, frame size, CRC error, pattern match etc.).

#### Capture View

The Capture View shows all data being captured on that port including the frame number, destination address, source address, data, frame length, and status.

#### TCL Scripts

A comprehensive set of TCL scripts is available for the 200 which implements several built TCL test suites, including RFC1944 (Bradner, McQuaid) and RFC2285 (

#### Protocol Support

Protocol editors and decoders are available for TCP, IP, IPX, ARP and others. The 200 releases with support for ARP, RIPv2, RIP, IGMP, 802.1q VLANs. Each port can generate OSPF and other user-defined packets at a user-specified frequency. In addition, each port can be assigned a MAC address and an IP address and can then respond to ARP requests. Scripts may be configured for layer 2 or layer 3 (IP and IPX). In addition, test scripts for QoS and IP multicast.

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